



Massachusetts Department of Environmental Protection  
Bureau of Waste Prevention – Industrial Wastewater

**BWP IW 38 & BWP IW 39**

**Permit for Industrial Sewer User**

W205513

Transmittal Number

130627

Facility ID# (if known)

**B. Industrial Wastewater Information**

1. Project Description (Check All That Apply)

☐ 1a. New Construction

☐ 1b. Permit Renewal

☐ 1c. Increasing Flow From Existing Connection

☐ 1d. New or Modified Industrial Wastewater Pretreatment System (IWPS)

☒ 1e. Existing Unpermitted Connection  
(Constructed Before 7/12/07)

2. List, in descending order of significance, the Standard Industrial Classification (SIC) codes, which best describe the facility producing the discharge in terms of the principal products or services provided. Also, specify each classification title. (See Appendix B in the Instructions)

2834

2a. SIC Code

Pharmaceutical Preparation

Description

2b. SIC Code

Description

2c. SIC Code

Description

2d. SIC Code

Description

3. List all sewer connection(s) and their maximum daily flow(s) in gallons per day (GPD) from your facility going to the Publicly Owned Treatment Works (POTW):

	1 3a. Connection #	2 3b. Connection #	3 3c. Connection #	3d. Total Flow, All Connections
<b>SANITARY</b>	36000 GPD	10000 GPD	500 GPD	GPD
<b>INDUSTRIAL</b>	139000 GPD	0 GPD	0 GPD	GPD
<b>TOTAL</b>	175000 GPD	10000 GPD	500 GPD	GPD

4. Are you in compliance with the Massachusetts Historical Commission requirements?

☒ Yes

☐ No\*

\*If No, You Must Comply With Massachusetts Historical Commission Requirements **BEFORE** You Can Submit This Application.

5. Are you in compliance with Massachusetts Environmental Policy Act (MEPA) requirements?

☒ Yes

☐ No\*

\*If No, You Must Comply With MEPA Requirements **BEFORE** You Can Submit This Application.



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**B. Industrial Wastewater Information** (continued)

6. Check all pollutants that are present in your industrial wastewater **before** pretreatment, or if not treated, before discharge:

☒ 6a. Metals, Asbestos, Cyanide, Phenols

If Metals, Asbestos, Cyanide, or Phenols are present, provide concentrations in milligrams per liter (mg/L):

1. Antimony (total) (Sb)	_____	9. Nickel (total) (Ni)	< 0.05
	mg/L		mg/L
2. Arsenic (total) (As)	_____	10. Selenium (total) (Se)	_____
	mg/L		mg/L
3. Beryllium (total) (Be)	_____	11. Silver (total) (Ag)	_____
	mg/L		mg/L
4. Cadmium (total) (Cd)	_____	12. Thallium (total) (Tl)	_____
	mg/L		mg/L
5. Chromium (hexavalent)	_____	13. Zinc (total) (Zn)	< 0.2
	mg/L		mg/L
6. Chrome (total) (Cr)	_____	14. Asbestos	_____
	mg/L		mg/L
7. Copper (total) (Cu)	< 0.1	15. Cyanide (total) (CN)	_____
	mg/L		mg/L
8. Lead (total) (Pb)	_____	16. Phenols (total)	_____
	mg/L		mg/L

☐ 6b. Toxic Pollutants (See Section 17B in the Instructions.)

If Toxic Pollutants are present, provide the total Toxic Pollutants concentration in micrograms per liter (ug/L):

< 5.0

6b1. Total Toxic Pollutants Concentration (ug/L)

NOTE: Use the **Toxic Pollutants Form** to list individual toxic chemicals and their concentrations.

☐ 6c. Total Petroleum Hydrocarbons (TPH) > 15 mg/L

☒ 6d. pH <5 and >10 Standard Units (S.U)

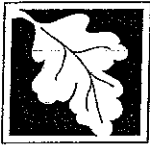
☐ 6e. Other\*

\*If Other Pollutants are present, describe them:

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**B. Industrial Wastewater Information** (continued)

7. Is Mercury (Hg) present in your industrial wastewater **before** pretreatment, or if not treated, before discharge?

☐ Yes

☒ No\*

\*If No, skip to Question 8.

7a. If Yes, have you identified all possible mercury sources and taken all reasonable steps to eliminate the mercury?

☐ Yes\*

☐ No

\*If Yes, skip to Question 8.

7b. If No, explain why.

Mercury is not expected in the wastewater discharge. Mercury or compounds containing mercury are used in a select few laboratory operations, none of which are accessible to the plumbing system. All waste mercury is lab packed and shipped offsite for proper disposal.

NOTE: As of May 1, 2009, all facilities must meet a discharge limit of 1 part per billion (ppb) for Mercury.

8. What is the name of the Publicly Owned Treatment Works (POTW) that receives your wastewater? (See Appendix C in the Instructions.)

Westborough Wastewater Treatment Facility  
Name of POTW

9. Do you have a current sewer connection discharge permit or a current written approval issued by your local POTW? (See Section 17B in the Instructions.)

☒ Yes

☐ No\*

\*If No, you must obtain either a permit or, if a permit is not required, a written approval from your local POTW to discharge **BEFORE** you can submit this application.

If you have a permit, provide the following information, then skip to Question 10.

210  
9a. Permit Number

2/28/10  
9b. Permit Expiration Date

If you have a written approval, provide the following information:

08/16/06  
9c. Date of Approval Letter

Christopher Pratt  
9d. Name of Person Who Signed the Letter

10. Are your POTW and local Sewer Authority the same entity? (See Section 17B in the Instructions.)

☒ Yes\*

☐ No

\*If Yes, skip to Question 12.



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Facility ID# (if known)

**B. Industrial Wastewater Information** (continued)

11. Do you have a current sewer connection discharge permit or a current written approval issued by your local Sewer Authority? (See Section 17B in the Instructions.)

☐ Yes

☐ No\*

If No, you must obtain either a permit or written approval from your local Sewer Authority to discharge **BEFORE** you can submit this application.

If you have a permit, provide the following information, then skip to Question 12.

11a. Permit Number

11b. Permit Expiration Date

If you have a written approval, provide the following information:

11c. Date of Approval Letter

11d. Name of Person Who Signed the Letter

12. Is your facility currently classified as a Categorical Industrial User (CIU) pursuant to Federal Regulations? (See Appendix D in the Instructions.)

☒ Yes

☐ No\*

\*If No, skip to Section C.

12a. List all the Categorical Pretreatment Standards applicable to your facility.

439 Subpart D

Pharmaceutical Manufacturing

12a1. Part Number

Point Source Category

12a2. Part Number

Point Source Category

12a3. Part Number

Point Source Category

12a4. Part Number

Point Source Category

**C. Industrial Wastewater Pretreatment System**

1. Do you have an on-site industrial wastewater pretreatment system (IWPS) to treat your industrial wastewater?

☒ Yes

☐ No\*

\*If No, skip to Section D.

1a. How many IWPSs do you have?

2

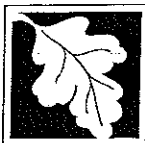
Number

NOTE: If you have more than one IWPS, please use an **Additional IWPS Form** for each additional IWPS.

1b. Provide a unique identifier (i.e. name) for this IWPS:

Outfall 001 - Parenteral

Identifier/Name



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**C. Industrial Wastewater Pretreatment System** (continued)

1c. What is the Total Design Capacity of this IWPS?

144000

Gallons Per Day

1d. What is the Average Daily Flow of this IPWS? (Estimate if this is a new facility.)

5500

Gallons Per Day

1e. What is the Maximum Daily Flow of this IWPS? (Estimate if this is a new facility.)

14000

Gallons Per Day

2. Is your IWPS designed and constructed to meet all local discharge standards and the applicable Categorical Industrial User (CIU) standards in 40 CFR Chapter I, Subchapter N?

☒ Yes

☐ No\*

\*If No, you must take immediate steps to address the non-compliance **BEFORE** you can submit this application.

3. Does this IWPS treat hazardous industrial wastewater or hazardous industrial wastewater sludge as defined in 314 CMR 7.02?

☐ Yes

☒ No\*

\*If No, skip to Question 12.

3a. Are you treating concentrated chemical baths, e.g. spent chemical baths, or off-specification products?

☐ Yes

☐ No\*

\*If No, skip to Question 4.

3b. If Yes, describe the concentrated chemical baths you are treating.

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4. Does your IWPS meet the requirements of "treatment which is an integral part of the manufacturing process" as defined in 310 CMR 30.010?

☐ Yes\*

☐ No

\*If Yes, skip to Question 7.

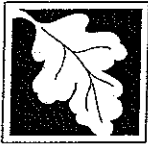
5. Do you store hazardous industrial wastewater or hazardous industrial wastewater sludge that is generated in your IWPS or in your production processes, in tanks or containers?

**Note:** If you use in-ground tanks for storage of hazardous industrial wastewater or sludge and your IWPS is located in a Drinking Water Zone (see Section 17C of the Instructions; reference language in 310 CMR 30.605), you are not eligible to apply for a BWP IW 38 or BWP IW 39 permit. You must use form BWP IW 40 instead.

☐ Yes

☐ No\*

\*If No, skip to Question 7.



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**C. Industrial Wastewater Pretreatment System** (continued)

6. Are you in compliance with the requirements for tanks and containers in 310 CMR 30.342 and 343? (See Section 17C in the Instructions)

☐ Yes

☐ No\*

\*If No, you must take immediate steps to address the non-compliance **BEFORE** you can submit this application.

7. Do you have a U.S. Environmental Protection Agency (EPA) hazardous waste generator identification number?

☐ Yes

☐ No\*

\*If No, skip to Question 7b.

7a. What is your EPA identification number?

Skip to Question 8.

EPA ID #

7b. Explain why you do not have an EPA identification number.

8. Do you have a visible sign in place that warns against unauthorized entry into the IWPS area?

☐ Yes\*

☐ No

\*If Yes, skip to Question 9.

8a. Explain why you do not have a visible sign in place.

9. Do you have the required spill containment for the IWPS? (See Section 17C in the Instructions.)

☐ Yes\*

☐ No

\*If Yes, skip to Question 10.

9a. Explain why you do not have the required spill containment.

10. Is your IWPS located on land subject to flooding from a 100-year storm? (See Section 17C in the Instructions.)

☐ Yes

☐ No\*

\*If No, skip to Question 12.



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**C. Industrial Wastewater Pretreatment System** (continued)

11. Are you in compliance with the flood-proofing provisions in 310 CMR 30.701(2)? (See Section 17C in the Instructions.)

☐ Yes

☐ No\*

\*If Yes, skip to Question 12.

11a. Explain why you are not in compliance with the flood-proofing provisions in 310 CMR 30.701(2).

12. What type of IWPS do you have? (Check all that apply.)

☐ Fully Automated Industrial Wastewater Pretreatment System (FAIWPS)

☒ Continuous Discharge IWPS

☐ Batch IWPS

13. Is the IWPS exempt from classification? (See Section 17C in the Instructions.)

☐ Yes\*

☒ No

\*If Yes, skip to Question 14.

13a. What is the classification of this IWPS? (See 257 CMR 2.13: Classification of Wastewater Treatment Facilities.)

☐ Class 1I

☒ Class 2I

☐ Class 3I

☐ Class 4I

☐ Class 5 or 6C

☐ Class 1M

☐ Class 2M

☐ Class 3M

☐ Class 4M

13b. How was the IWPS' classification determined?

☐ In accordance with the requirements in 314 CMR 7.05(2)(g) 4. c. or d.

☒ By the Board of Certification of Operators of Wastewater Treatment Facilities

☐ Both

14. Is the IWPS staffed in accordance with the requirements of 314 CMR 7.05(2)(g) 5? (See Section 17C in the Instructions.)

☒ Yes\*

☐ No

\*If Yes, skip to Question 15.



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**C. Industrial Wastewater Pretreatment System** (continued)

14a. Explain why the IWPS is not staffed in accordance with 314 CMR 7.05(2)(g) 5.

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15. Is this your first permit application under Permit Category BWP IW 38 or BWP IW 39 for this IWPS? Or, is this application a request for modification of this IWPS that currently has a BWP IW 38 or BWP IW 39 permit?

☒ Yes\*

☐ No

\*If Yes, you need to submit as an attachment the process flow diagram and description of the principal treatment processes for your IWPS. Otherwise, skip to Question 17.

16. How many attachments are included with this application in response to Question 15?

3 - Attachments 1, 2 and 3  
Number of Attachments

17. Have your sewer connection and IWPS been designed and constructed in compliance with the design and construction standards as set forth in 314 CMR 7.05(2)(g)3?

☒ Yes

☐ No\*

\*If No, skip to Question 17b.

17a. What is the Massachusetts Registered Professional Engineer (MAPE) signature date on the engineering plans?

10/15/01

Skip to Question 18.

Date

17b. Explain why your sewer connection and IWPS have not been designed and constructed in compliance with the design and construction standards as set forth in 314 CMR 7.05(2)(g)3.

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18. Provide the following information about the Massachusetts Registered Professional Engineer (MAPE) who reviewed, stamped, and signed your engineering plans:

Mark Racicot

18a. Name

40160

18c. Mass. P.E. License Number

508-970-0033 (Capaccio Environmental)

18b. Phone Number

Environmental

18d. Mass. P.E. Specialty



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**C. Industrial Wastewater Pretreatment System** (continued)

19. Do you have an IWPS operation and maintenance manual that complies with the procedures and other requirements in 314 CMR 7.05(2)(g)6.?

☒ Yes\*

☐ No

\*If Yes, skip to Question 20.

19a. Explain why you do not have the required IWPS operation and maintenance manual.

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20. Are you keeping your IWPS operation and maintenance manual current?

☒ Yes

☐ No

21. Are you implementing your IWPS operation and maintenance manual?

☒ Yes

☐ No

**D. Monitoring, Reporting & Recordkeeping**

1. Are you keeping your currently effective sewer discharge permit(s), IWPS plan(s), and current operation and maintenance manual(s) (as applicable) on-site at all times?

☒ Yes\*

☐ No

\* If Yes, skip to Question 2.

1a. Explain why you are not keeping these records on-site at all times.

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2. Are you keeping all your required records including your wastewater monitoring and analyses records, operation and maintenance records and logs, bills of lading, summary reports of all incidents requiring implementation of the safety plan, and hazardous waste manifests (as applicable) on-site for at least three years?

☒ Yes\*

☐ No

\* If Yes, skip to Question 3.

2a. Explain why you are not keeping these records on-site for at least three years.

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**D. Monitoring, Reporting & Recordkeeping** (continued)

3. [Reserved for Toxics Reporting]

Additional reporting requirements will be added to this section in the future.

**E. General & Specific Prohibitions**

1. After carefully reviewing all of the general and specific prohibitions listed below, are you in compliance with these General and Specific Prohibitions?

☒ Yes\*

☐ No

\*If Yes, read Section F and then complete Section G.

1a. Identify all the prohibitions you are not in compliance with and explain why. Attach an additional sheet of paper to this form, if necessary.

**1. General Prohibitions.** The permittee shall not:

a. Discharge, or cause to be discharged to a POTW, any substances, materials, or wastewater that may:

- i. harm the sewers, POTW wastewater treatment process or equipment;
- ii. have an adverse impact on the receiving waters; or
- iii. otherwise create a nuisance or endanger public health, safety, or the environment.

b. Introduce pollutants into POTWs that pass through the POTW or interfere with its operation or performance.

c. Discharge wastewater or allow discharge of wastewater through any sewer connection that would result in a hazard to the public health or safety.

d. Discharge bypass wastewater or allow discharge of bypass wastewater through any sewer connection. If bypassing due to an emergency condition occurs, the Department and POTW shall be notified in accordance with 314 CMR 7.04(3). Such notification or its acknowledgement shall not be construed as permission by the Department or POTW to discharge bypass wastewater.

e. Discharge hazardous waste or allow the discharge of hazardous waste through any sewer connection.

**2. Specific Prohibitions.** The permittee shall not introduce into a POTW or its wastewater collection system the following:

a. Pollutants which may create a fire, explosion, or other hazard in the POTW or its wastewater collection system.

b. Pollutants which may cause corrosive structural damage to the POTW or its wastewater collection system. In no case shall discharges with a pH lower than 5.0 Standard Unit (S.U) or more than 10.0 S.U. be allowed, unless the local limit allows such discharges.

c. Solid or viscous pollutants in amounts which may cause obstruction to the flow in the POTW or its wastewater collection system or may result in interference.

d. Any pollutant, including oxygen-demanding pollutants, discharged at a flow rate or pollutant concentration that will cause interference with the POTW or its wastewater collection system.

e. Heat in amounts which may inhibit biological activity in the POTW, resulting in interference. In no case shall heat in such quantities that the temperature at the POTW treatment plant exceeds 40° C (104° F) be discharged, unless the Department, upon request of the POTW, approves alternate temperature limits.



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## F. Additional Conditions

- a. All discharges shall be in compliance with the terms and conditions of this permit. The discharge of any wastewater at a level in excess of that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit. Such a violation may result in the imposition of civil and/or criminal penalties as provided for in M.G.L. c.21, Section 42.
- b. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
  - i. Violation of any terms or conditions of the permit;
  - ii. Obtaining a permit by misrepresentation or failure to disclose fully all relevant facts; or
  - iii. A change in conditions or the existence of a condition, which requires either a temporary or permanent reduction, or elimination of the authorized discharge.
- c. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges; nor does it authorize or relieve the permittee of any liability for any injury to private property or any invasion of personal rights; nor any infringement of Federal, State, or local laws or regulations; nor does it waive the necessity of obtaining any local assent required by law for the discharge authorized herein by the Department.
- d. The provisions of this permit are severable, and the invalidity of any condition or subdivision thereof shall not make void any other condition or subdivision thereof.
- e. All information and data provided by an applicant or a permittee identifying the nature and frequency of a discharge shall be available to the public without restriction. All other information (other than effluent data) which may be submitted by an applicant in connection with a permit application shall also be available to the public unless the applicant or permittee is able to demonstrate that the disclosure of such information or particular part thereof to the general public would divulge methods or processes entitled to protection as trade secrets in accordance with the provisions of M.G.L. c.21, Section.27(7). Where the applicant or permittee is able to so demonstrate, the Department shall treat the information or the particular part (other than effluent data) as confidential and not release it to any unauthorized person. Such information may be divulged to other officers, employees, or authorized representatives of the Commonwealth or the United States Government concerned with the protection of public water or water supplies.
- f. Transfer of Permits. Any sewer system connection permit authorizing an industrial discharge to a sewer system is only valid for the person to whom it is issued, unless prior to transfer:
  - i. The current permittee notifies the Department in writing at least 30 days in advance of the proposed transfer date; and
  - ii. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibilities, and liability to the new permittee.
- g. This permit authorizing the discharge expires five (5) years from the date of issuance. The permittee shall apply for a renewal of this permit at least ninety (90) days prior to the expiration date, in accordance with 314 CMR 7.09(3)(b) for continued lawful discharges beyond the expiration date.
- h. All solids, sludge, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be collected, treated, and disposed of in accordance with applicable provisions in the following:
  - i. Hazardous waste regulations (310 CMR 30.000).
  - ii. Solid waste regulations (310 CMR 19.00).
  - iii. Sewer discharge regulations (314 CMR 7.00).
  - iv. Any other applicable federal, state and local laws.
- i. All samples shall be analyzed by a Massachusetts Certified Laboratory.
- j. The permittee shall provide the Department, and the Department's employees, authorized representatives and contractors, access at to the facility at all reasonable times, including during wastewater treatment system operation or wastewater discharge, for purposes of conducting activities related to oversight of this permit, including inspections to monitor compliance with the terms herein. The permittee shall allow the Department to obtain information related to compliance with the requirements of this permit. Notwithstanding any provision of this permit, the Department retains all of its access authorities and rights under applicable state and federal law.



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**G. Certification Statement**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate, and complete. I certify that this facility is in compliance with all conditions and requirements of this permit, and all applicable statutes and regulations. I further certify that systems to maintain compliance are in place at the facility or unit and will be maintained even if processes or operating procedures are changed. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations."

(I will be responsible for publication of public notice of the applicable permit proceedings identified under 314 CMR 2.06(1)(a) through (d).)

Rod Stull  
Printed Name of Applicant  
Executive Director & General Manager  
Title  
*Rod Stull*  
Signature of Applicant  
January 17, 2005  
Date Signed

Gregory LoConte  
Name of Preparer  
Director SHE  
Title  
508-836-8316  
Phone Number

MassDEP Use Only

**Special Conditions:**

See Attachment A

This document is a permit issued pursuant to Massachusetts General Laws, Chapter 21, Section 43 and Massachusetts regulations at 314 CMR 7.00. The permittee shall comply with all of the provisions contained in the permit application which are hereby incorporated and made part of this permit.

Date Issued

Permit Effective Date

Name of Regional BWP Section Chief

Permit Expiration Date

Signature



Massachusetts Department of Environmental Protection  
Bureau of Waste Prevention – Industrial Wastewater  
**Additional IWPS Form**  
Use With BWP IW 38 & BWP IW 39

W205513

Transmittal Number

130627

Facility ID# (if known)

BWP IW 38

Permit Code

**Instructions:** Submit a completed copy of this form for each additional Industrial Wastewater Pretreatment System (IWPS) not identified on your BWP IW 38/BWP IW 39 permit application.

## Industrial Wastewater Pretreatment System (IWPS) Information

NOTE: Question numbers on this form are identical with those on the BWP IW 38/BWP IW 39 permit application or Industrial Sewer Connection Certification forms. Questions 1 and 1a have been intentionally omitted.

1b. Please provide a unique identifier (i.e. name) for this IWPS:

Outfall 002 - West Lawn

Identifier/Name

1c. What is the Total Design Capacity of this IWPS?

72000

Gallons Per Day

1d. What is the Average Daily Flow of this IPWS? (Estimate if this is a new facility.)

5000

Gallons Per Day

1e. What is the Maximum Daily Flow of this IWPS? (Estimate if this is a new facility.)

15000

Gallons Per Day

2. Is your IWPS designed and constructed to meet all local discharge standards and the applicable Categorical Industrial User (CIU) standards in 40 CFR Chapter I, Subchapter N?

☒ Yes

☐ No\*

\*If No, you must take immediate steps to address the non-compliance **BEFORE** you can submit this application.

3. Does this IWPS treat hazardous industrial wastewater or hazardous industrial wastewater sludge as defined in 314 CMR 7.02?

☐ Yes

☒ No\*

\*If No, skip to Question 12.

3a. Are you treating concentrated chemical baths, e.g. spent chemical baths, or off-specification products?

☐ Yes

☐ No\*

\*If No, skip to Question 4.

3b. If Yes, describe the concentrated chemical baths you are treating:

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Massachusetts Department of Environmental Protection  
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**Additional IWPS Form**  
Use With BWP IW 38 & BWP IW 39

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BWP IW 38

Permit Code

**IWPS Information** (continued)

4. Does your IWPS meet the requirements of "treatment which is an integral part of the manufacturing process" as defined in 310 CMR 30.010?

☐ Yes\*

☐ No

\*If Yes, skip to Question 7.

5. Do you store hazardous industrial wastewater or hazardous industrial wastewater sludge that is generated in your IWPS or in your production processes and stored in tanks or containers?

**Note:** If you use in-ground tanks for storage of hazardous industrial wastewater or sludge and your IWPS is located in a Drinking Water Zone (see Section 17C of the Instructions; reference language in 310 CMR 30.605), you are not eligible to apply for a BWP IW 38 or BWP IW 39 permit. You must use form BWP IW 40 instead.

☐ Yes

☐ No\*

\*If No, skip to Question 7.

6. Are you in compliance with the requirements for tanks and containers in 310 CMR 30.342 and 343? (See Section 17C in the Instructions)

☐ Yes

☐ No\*

\*If No, you must take immediate steps to address the non-compliance **BEFORE** you can submit this application.

7. Do you have a U.S. Environmental Protection Agency (EPA) hazardous waste generator identification number?

☐ Yes

☐ No\*

\*If No, skip to Question 7b.

7a. What is your EPA identification number?

Skip to Question 8.

EPA ID #

7b. Explain why you do not have an EPA identification number.

8. Do you have a visible sign in place that warns against unauthorized entry into the IWPS area?

☐ Yes\*

☐ No

\*If Yes, skip to Question 9.

8a. Explain why you do not have a visible sign in place.



Massachusetts Department of Environmental Protection  
Bureau of Waste Prevention – Industrial Wastewater  
**Additional IWPS Form**  
Use With BWP IW 38 & BWP IW 39

W205513  
Transmittal Number  
130627  
Facility ID# (if known)  
BWP IW 38  
Permit Code

**Additional IWPS Information** (continued)

9. Do you have the required spill containment for the IWPS? (See Section 17C in the Instructions.)

☐ Yes\*

☐ No

\*If Yes, skip to Question 10.

9a. Explain why you do not have the required spill containment.

10. Is your IWPS located on land subject to flooding from a 100-year storm? (See Section 17C in the Instructions.)

☐ Yes

☐ No\*

\*If No, skip to Question 12.

11. Are you in compliance with the flood-proofing provisions in 310 CMR 30.701(2)? (See Section 17C in the Instructions.)

☐ Yes\*

☐ No

\*If Yes, skip to Question 12.

11a. Explain why you are not in compliance with the flood-proofing provisions in 310 CMR 30.701(2).

12. What type of IWPS do you have? (Check all that apply.)

☐ Fully Automated Industrial Wastewater Pretreatment System (FAIWPS)

☒ Continuous Discharge IWPS

☐ Batch IWPS

13. Is the IWPS exempt from classification? (See Section 17C in the Instructions.)

☐ Yes\*

☒ No

\*If Yes, skip to Question 14.

13a. What is the classification of this IWPS? (See 257 CMR 2.13: Classification of Wastewater Treatment Facilities.)

☐ Class 1I

☒ Class 2I

☐ Class 3I

☐ Class 4I

☐ Class 5 or 6C

☐ Class 1M

☐ Class 2M

☐ Class 3M

☐ Class 4M



Massachusetts Department of Environmental Protection  
Bureau of Waste Prevention – Industrial Wastewater  
**Additional IWPS Form**  
Use With BWP IW 38 & BWP IW 39

W205513

Transmittal Number

130627

Facility ID# (if known)

BWP IW 38

Permit Code

**Additional IWPS Information** (continued)

13b. How was the IWPS' classification determined?

☐ 13b1. In accordance with the requirements in 314 CMR 7.05(2)(g) 4. c. or d.

☒ 13b2. By the Board of Certification of Operators of Wastewater Treatment Facilities

☐ 13b3. Both

14. Is the IWPS staffed in accordance with the requirements of 314 CMR 7.05(2)(g) 5? (See Section 17C in the Instructions.)

☒ Yes\*

☐ No

\*If Yes, skip to Question 15.

14a. Explain why the IWPS is not staffed in accordance with 314 CMR 7.05(2)(g) 5.

15. Is this your first permit application under Permit Category BWP IW 38 or BWP IW 39 for the IWPS? Or, is this application a request for modification of the IWPS that currently has a BWP IW 38 or BWP IW 39 permit?

☒ Yes\*

☐ No

\*If Yes, you need to submit as an attachment the process flow diagram and description of the principal treatment processes for your IWPS.

16. How many attachments are included with this application in response to Question 15?

3 - Attachments 4, 5 and 6

Number of Attachments

17. Have your sewer connection and IWPS been designed and constructed in compliance with the design and construction standards as set forth in 314 CMR 7.05(2)(g)3?

☒ Yes

☐ No\*

\*If No, skip to Question 17b.

17a. What is the Massachusetts Registered Professional Engineer (MAPE) signature date on the engineering plans?

10/15/01

Date

Skip to Question 18.



**Massachusetts Department of Environmental Protection**  
**Bureau of Waste Prevention – Industrial Wastewater**  
**Additional IWPS Form**  
**Use With BWP IW 38 & BWP IW 39**

W205513

Transmittal Number

130627

Facility ID# (if known)

BWP IW 38

Permit Code

17b. Explain why your sewer connection and IWPS have not been designed and constructed in compliance with the design and construction standards as set forth in 314 CMR 7.05(2)(g)3.

18. Provide the name of the Massachusetts Registered Professional Engineer (MAPE) who reviewed, stamped, and signed your engineering plans:

Mark Racicot

18a. Name

40160

18c. Mass. P.E. License Number

508-970-0033 (Capaccio Environmental)

18b. Phone Number

Environmental

18d. Mass. P.E. Specialty

19. Do you have an IWPS operation and maintenance manual that complies with the procedures and other requirements in 314 CMR 7.05(2)(g)6.?

☒ Yes\*

☐ No

\*If Yes, skip to Question 20.

19a. Explain why you do not have an IWPS operation and maintenance manual.

20. Are you keeping your IWPS operation and maintenance manual current?

☒ Yes

☐ No

21. Are you implementing your IWPS operation and maintenance plan manual?

☒ Yes

☐ No

## **Attachment 1 – Description of Treatment Process for Outfall 001 Parenteral**

### **Outfall 001 – Parenteral Building**

The Parenteral IWWT is located in Building 3 (Parenteral), 1<sup>st</sup> floor mechanical room. The Parenteral IWWT system is a gravity-flow, dual-stage, continuously monitored pH neutralization system. Process waste streams flow by gravity into a one thousand (1,000) gallon fiberglass tank with a mechanical mixer where the flow is equalized and the pH coarse adjusted. This tank also has a recirculation loop with a heat exchanger to reduce the temperature of the wastewater to less than 120 F. The wastewater then flows by gravity into a second one thousand (1,000) gallon fiberglass tank with a mechanical mixer where the pH is trimmed before discharge to the Town sewer.

Both tanks have pH sensors and controllers operating redundant chemical metering pumps that supply acid or caustic. Both tanks are equipped with high and low pH alarms that are monitored 24 hours per day. All pH readings and flows are continuously recorded on a dual pen circular chart recorder. In addition, the effluent monitoring systems is connected to the AstraZeneca building automation system, which is monitored 24-hours/day, 7-days/week for alarm conditions. A sampling port and flow meter connection are provided on the effluent line prior to the H flume for automatic flow paced sampling.



Massachusetts Department of Environmental Protection  
Bureau of Waste Prevention – Industrial Wastewater  
**Toxic Pollutants Form**  
Use With Industrial Sewer Connection Certification

AstraZeneca LP  
Facility Name  
130627  
Facility ID# (if known)  
Westborough  
Facility City/Town

**Instructions:** For the following groups of pollutants, check all that you know to be present in your industrial wastewater before pretreatment, and provide concentrations for the specific pollutants in the checked group(s).

☐ **100. Volatiles**

For all Volatile Organic Compounds (VOCs), provide concentrations in micrograms per liter (ug/L):

Pollutant Name	Concentration
101. acrolein	ug/L
102. acrylonitrile	ug/L
103. benzene	ug/L
104. bis (chloromethyl) ether	ug/L
105. bromoform	ug/L
106. carbon tetrachloride	ug/L
107. chlorobenzene	ug/L
108. chlorodibromomethane	ug/L
109. chloroethane	ug/L
110. 2-chloroethylvinyl ether	ug/L
111. chloroform	< 5.0 ug/L
112. dichlorobromomethane	ug/L
113. dichlorodifluoromethane	ug/L
114. 1,1-dichloroethane	ug/L
115. 1,2-dichloroethane	ug/L
116. 1,1-dichloroethylene	ug/L
117. 1,2-dichloropropane	ug/L
118. 1,2-dichloropropylene	ug/L
119. ethylbenzene	ug/L
120. methyl bromide	ug/L
121. methyl chloride	ug/L



**Massachusetts Department of Environmental Protection**  
**Bureau of Waste Prevention – Industrial Wastewater**  
**Toxic Pollutants Form**  
**Use With Industrial Sewer Connection Certification**

AstraZeneca LP

Facility Name

130627

Facility ID# (if known)

Westborough

Facility City/Town

**100. Volatiles (continued)**

**Pollutant Name**

**Concentration**

122. methylene chloride

ug/L

123. 1,1,2,2-tetrachloroethane

ug/L

124. tetrachloroethylene

ug/L

125. toluene

ug/L

126. 1,2-trans-dichloroethylene

ug/L

127. 1,1,1-trichloroethane

ug/L

128. 1,1,2-trichloroethane

ug/L

129. trichloroethylene

ug/L

130. trichlorofluoromethane

ug/L

131. vinyl chloride

ug/L

☐ **200. Acid Compounds**

For all Acid Compounds, provide concentrations in micrograms per liter (ug/L):

**Pollutant Name**

**Concentration**

201. 2-chlorophenol

ug/L

202. 2,4-dichlorophenol

ug/L

203. 2,4-dimethylphenol

ug/L

204. 4,6-dinitro-o-cresol

ug/L

205. 2,4-dinitrophenol

ug/L

206. 2-nitrophenol

ug/L

207. 4-nitrophenol

ug/L

208. p-chloro-m-cresol

ug/L

209. pentachlorophenol

ug/L

210. phenol

ug/L

211. 2,4,6-trichlorophenol

ug/L



Massachusetts Department of Environmental Protection  
Bureau of Waste Prevention – Industrial Wastewater  
**Toxic Pollutants Form**  
Use With Industrial Sewer Connection Certification

AstraZeneca LP

Facility Name

130627

Facility ID# (if known)

Westborough

Facility City/Town

☐ **300. Base/Neutral Compounds**

For all Base/Neutral Compounds, provide concentrations in micrograms per liter (ug/L):

Pollutant Name	Concentration
301. acenaphthene	ug/L
302. acenaphthylene	ug/L
303. anthracene	ug/L
304. benzidine	ug/L
305. benzo(a)anthracene	ug/L
306. benzo(a)pyrene	ug/L
307. 3,4-benzofluoranthene	ug/L
308. benzo(ghi)perylene	ug/L
309. benzo(k)fluoranthene	ug/L
310. bis(2-chloroethoxy)methane	ug/L
311. bis(2-chloroethyl)ether	ug/L
312. bis(2-chloroisopropyl)ether	ug/L
313. bis(2-ethylhexyl)phthalate	ug/L
314. 4-bromophenyl phenyl ether	ug/L
315. butylbenzyl phthalate	ug/L
316. 2-chloronaphthalene	ug/L
317. 4-chlorophenyl phenyl ether	ug/L
318. chrysene	ug/L
319. dibenzo(a,h)anthracene	ug/L
320. 1,2-dichlorobenzene	ug/L
321. 1,3-dichlorobenzene	ug/L
322. 1,4-dichlorobenzene	ug/L
323. 3,3'-dichlorobenzidine	ug/L



**Massachusetts Department of Environmental Protection**  
**Bureau of Waste Prevention – Industrial Wastewater**  
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AstraZeneca LP

Facility Name

130627

Facility ID# (if known)

Westborough

Facility City/Town

**300. Base/Neutral Compounds (continued)**

<b>Pollutant Name</b>	<b>Concentration</b>
324. diethyl phthalate	ug/L
325. dimethyl phthalate	ug/L
326. di-n-butyl phthalate	ug/L
327. 2,4-dinitrotoluene	ug/L
328. 2,6-dinitrotoluene	ug/L
329. di-n-octyl phthalate	ug/L
330. 1,2-diphenylhydrazine (as azobenzene)	ug/L
331. fluoranthene	ug/L
332. fluorine	ug/L
333. hexachlorobenzene	ug/L
334. hexachlorobutadiene	ug/L
335. hexachlorocyclopentadiene	ug/L
336. hexachloroethane	ug/L
337. indeno(1,2,3-cd)pyrene	ug/L
338. isophorone	ug/L
339. naphthalene	ug/L
340. nitrobenzene	ug/L
341. N-nitrosodimethylamine	ug/L
342. N-nitrosodi-n-propylamine	ug/L
343. N-nitrosodiphenylamine	ug/L
344. phenanthrene	ug/L
345. pyrene	ug/L
346. 1,2,4-trichlorobenzene	ug/L



Massachusetts Department of Environmental Protection  
Bureau of Waste Prevention – Industrial Wastewater  
**Toxic Pollutants Form**  
Use With Industrial Sewer Connection Certification

AstraZeneca LP

Facility Name

130627

Facility ID# (if known)

Westborough

Facility City/Town

☐ **400. Pesticides**

For all Pesticides, provide concentrations in micrograms per liter (ug/L):

Pollutant Name	Concentration
401. aldrin	ug/L
402. alpha-BHC	ug/L
403. beta-BHC	ug/L
404. gamma-BHC	ug/L
405. delta-BHC	ug/L
406. chlordane	ug/L
407. 4,4'-DDT	ug/L
408. 4,4'-DDE	ug/L
409. 4,4'-DDD	ug/L
410. dieldrin	ug/L
411. alpha-endosulfan	ug/L
412. beta-endosulfan	ug/L
413. endosulfan sulfate	ug/L
414. endrin	ug/L
415. endrin aldehyde	ug/L
416. heptachlor	ug/L
417. heptachlor epoxide	ug/L
418. PCB-1242	ug/L
419. PCB-1254	ug/L
420. PCB-1221	ug/L
421. PCB-1232	ug/L
422. PCB-1248	ug/L
423. PCB-1260	ug/L



Massachusetts Department of Environmental Protection  
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AstraZeneca LP

Facility Name

130627

Facility ID# (if known)

Westborough

Facility City/Town

**400. Pesticides**

**Pollutant Name**

**Concentration**

424. PCB-1016

ug/L

425. toxaphene

ug/L

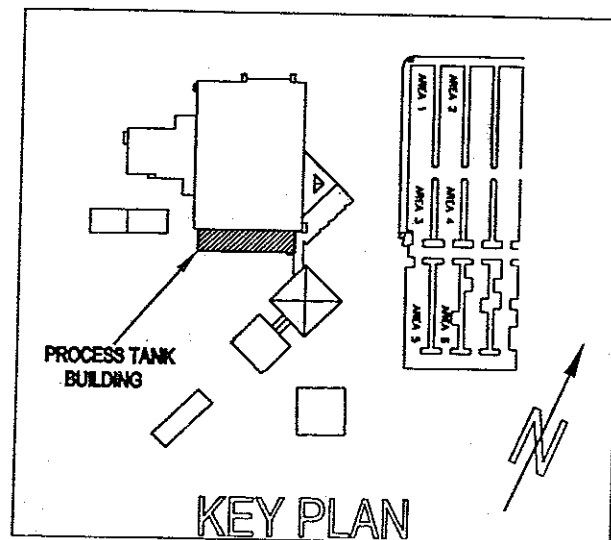
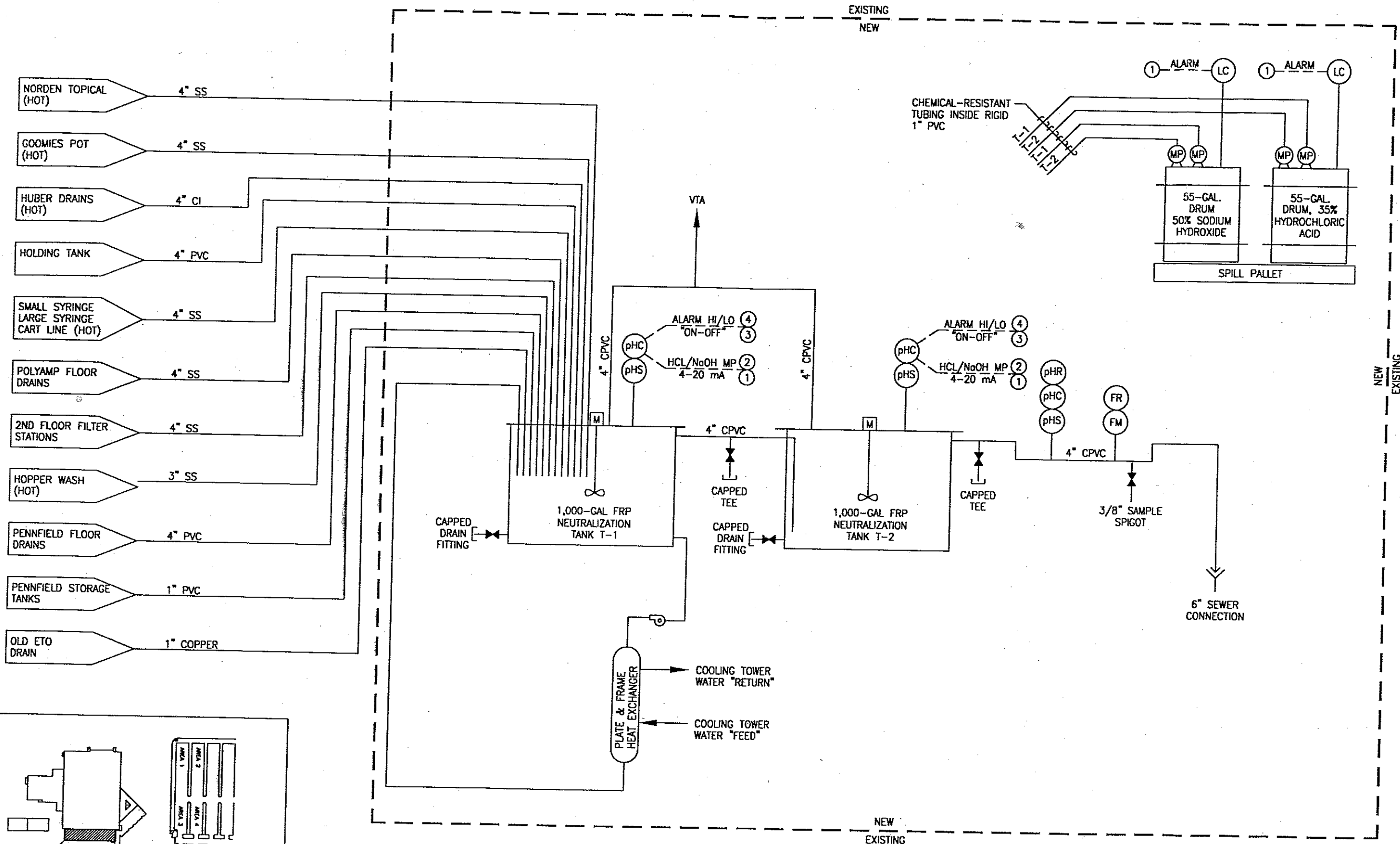
**500. Total Toxic Pollutants\***

< 5.0

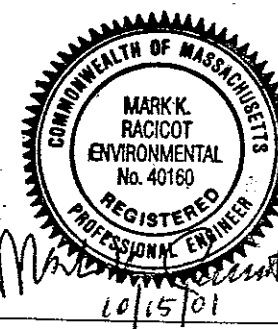
ug/L

\*Use this total in your answer to Question 5b in Section B of the Industrial Sewer Connection Certification form.

**Attachment 2 –Process Flow Diagram for Outfall 001 Parenteral (Stamped by PE)**



REVISION					
REV	DESCRIPTION	DRW	CHK	ENG	DATE
01	ORIGINAL ISSUE	JRV	SEG	MKR	3/20/01



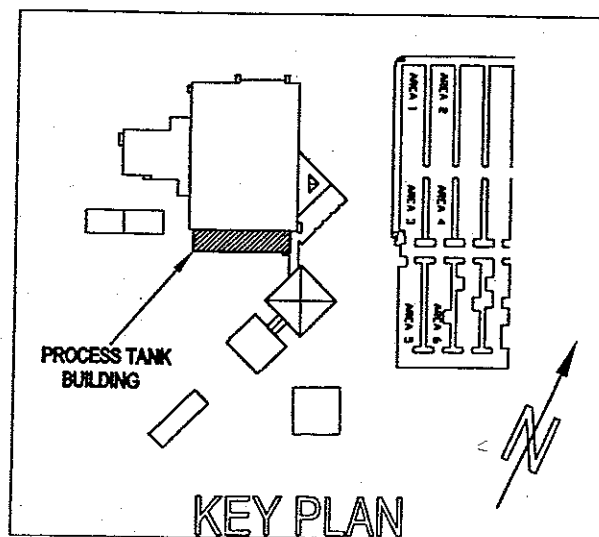
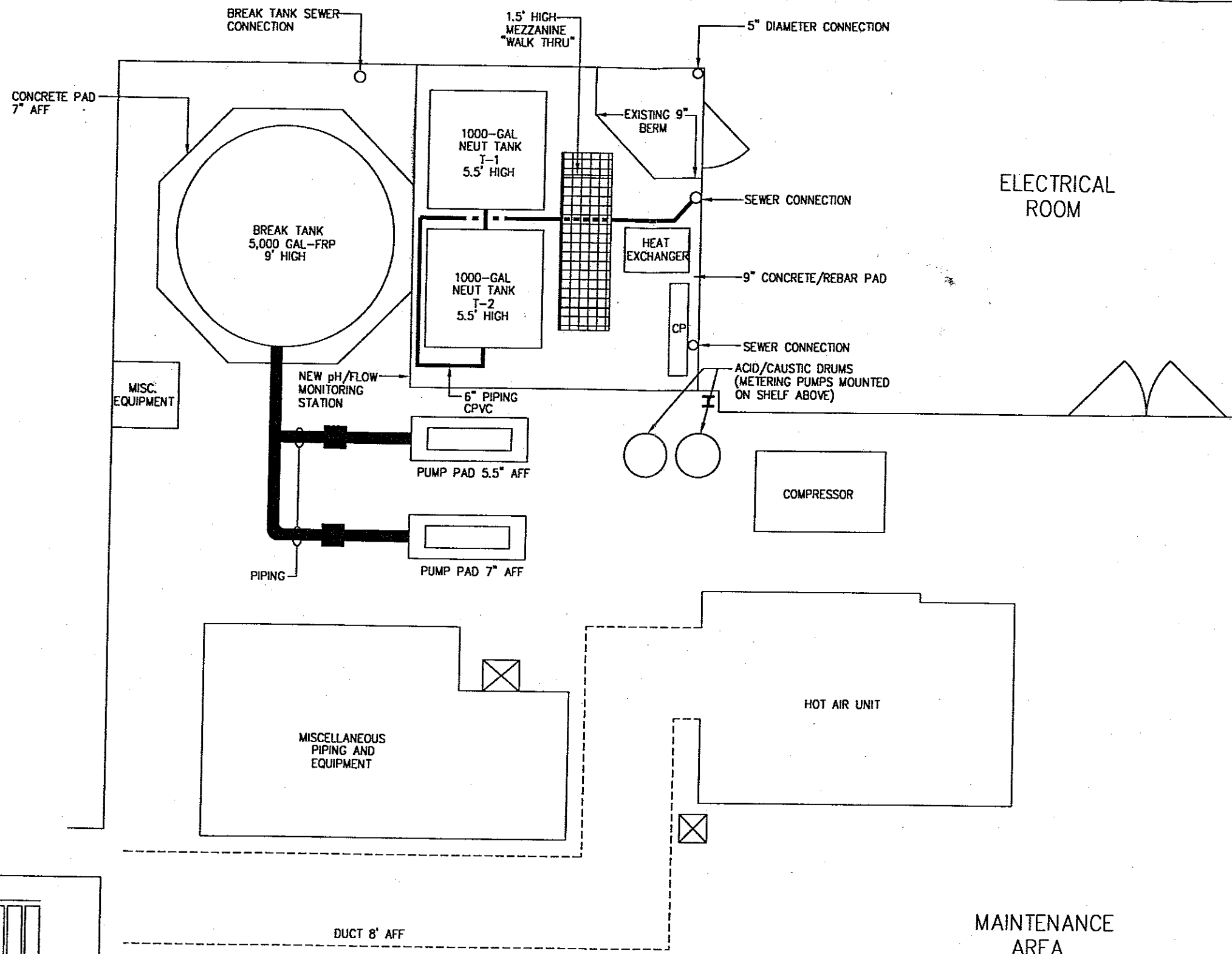
PROJECT NUMBER  
99-070D  
SCALE NONE

CLIENT: ASTRAZENECA  
50 OTIS STREET  
WESTBOROUGH, MA  
TITLE: PROPOSED PROCESS WW TANK  
IWWT SYSTEM P&ID

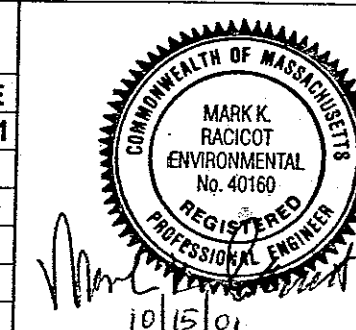
DRAWING NUMBER  
P-7  
CAD: 01-102A

75 Union Avenue, Sudbury, MA 01776

**Attachment 3 –Layout Diagram for Outfall 001 Parenteral (Stamped by PE)**



REVISION					
REV	DESCRIPTION	DRW	CHK	ENG	DATE
01	ORIGINAL ISSUE	JRV	SEG	MKR	3/20/01



<b>Capaccio</b> Environmental Engineering, Inc. 75 Union Avenue, Sudbury, MA 01776	
PROJECT NUMBER 99-070D	CLIENT: ASTRAZENCA 50 OTIS STREET WESTBOROUGH, MA
TITLE: PROPOSED PROCESS WW TANK IWWT SYSTEM LAYOUT	DRAWING NUMBER L-7
SCALE: 3/8"=1'-0"	CAD: 01-102A

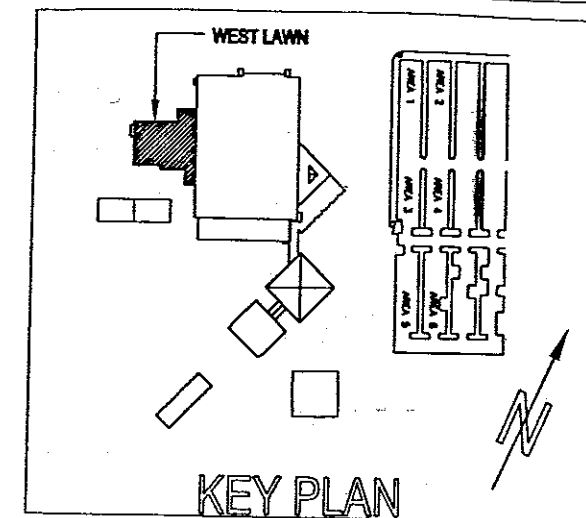
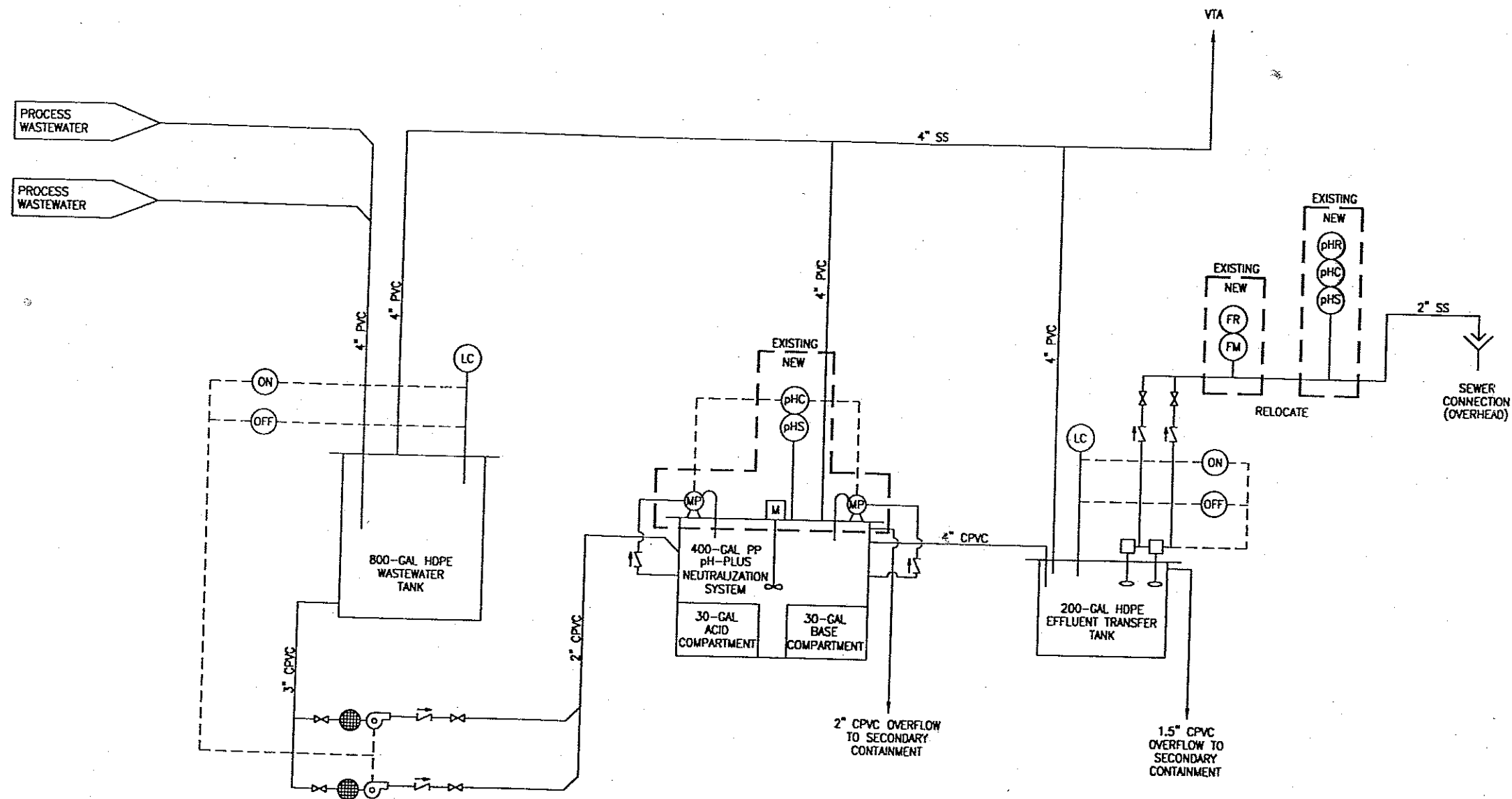
#### **Attachment 4 – Description of Treatment Process for Outfall 002 West Lawn**

##### **Outfall 002 – West Lawn Building**

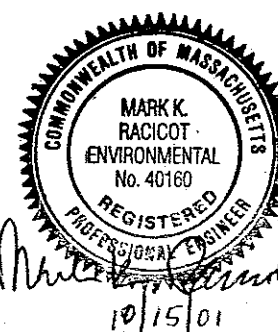
The West Lawn IWWT is located in Building 12 (West Lawn), basement mechanical space. The West Lawn IWWT is a single-stage, continuously monitored pH neutralization system equipped with an effluent lift station. Process waste streams flow by gravity into a nine hundred (900) gallon polyethylene “spill” tank where the flow is transferred by a float controlled duplex pump system. The flow is pumped into a four hundred (400) gallon polypropylene pH neutralization tank. This tank has a mechanical mixer, pH sensor, and controller that operate chemical metering pumps that supply acid or caustic. Following pH adjustment, the wastewater flows by gravity to a two hundred (200) gallon polyethylene effluent transfer tank. The effluent transfer tank has a level controlled duplex effluent pump system that pumps the effluent through a force main to the Town sewer.

The “spill” and transfer tanks have high level alarms, and the effluent tank is equipped with a pH probe with both high and low pH alarms. All pH readings and flows are continuously recorded on a dual pen circular chart recorder. In addition, the effluent monitoring systems is connected to the AstraZeneca building automation system, which is monitored 24-hours/day, 7-days/week for alarm conditions. A sampling port and flow meter connection are provided on the force main for automatic flow paced sampling. A containment system with an alarmed liquid detention system is provided for all tanks utilized at this outfall.

**Attachment 5 –Process Flow Diagram for Outfall 002 West Lawn (Stamped by PE)**



REVISION					
REV	DESCRIPTION	DRW	CHK	ENG	DATE
01	ORIGINAL ISSUE	JRV	SEG	MKR	3/20/01

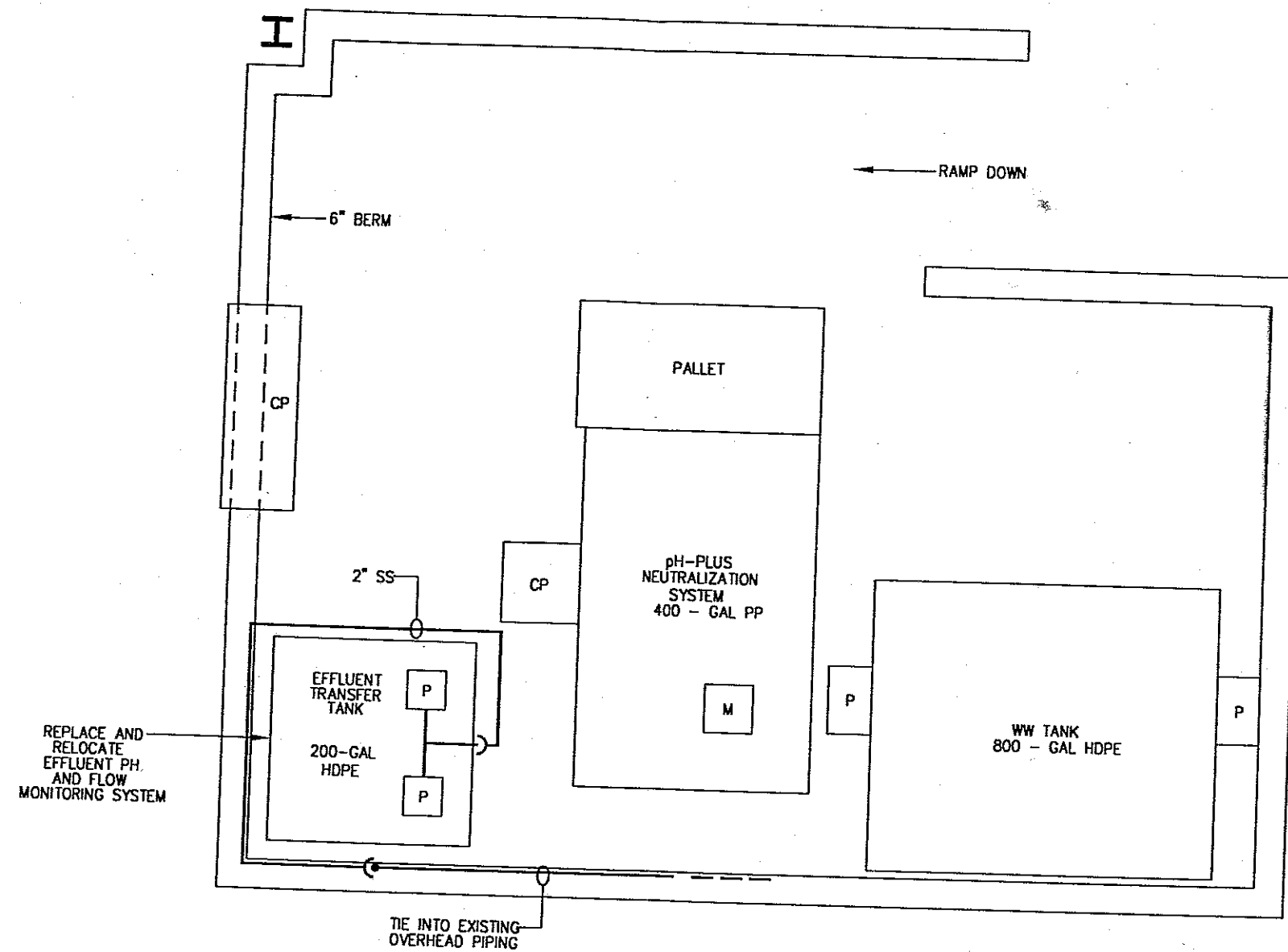


**Capacchio**  
Environmental Engineering, Inc.

75 Union Avenue, Sudbury, MA 01776

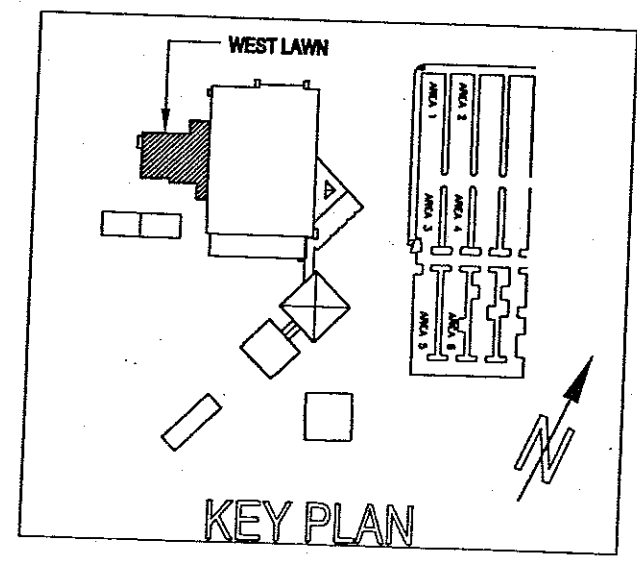
PROJECT NUMBER	CLIENT:	DRAWING NUMBER
99-070D	ASTRAZENECA 50 OTIS STREET WESTBOROUGH, MA	P-9
SCALE: 3/8"=1'-0"	TITLE: PROPOSED WEST LAWN IWWT SYSTEM P&ID	CAD: 01-102A

**Attachment 6 –Layout Diagram for 002 West Lawn (Stamped by PE)**




REPLACE AND  
RELOCATE  
EFFLUENT PH.  
AND FLOW  
MONITORING SYSTEM

TIE INTO EXISTING  
OVERHEAD PIPING



REVISION					
REV	DESCRIPTION	DRW	CHK	ENG	DATE
01	ORIGINAL ISSUE	JRV	SEG	MKR	3/20/01




**Capacchio**  
 Environmental Engineering, Inc.

75 Union Avenue, Sudbury, MA 01776  
 PROJECT NUMBER: 99-070D  
 CLIENT: ASTRAZENECA  
 50 OTIS STREET  
 WESTBOROUGH, MA  
 TITLE: PROPOSED WEST LAWN  
 IWWT SYSTEM LAYOUT

DRAWING NUMBER: L-9

SCALE: 3/8"=1'-0"